

FOOD AND BEVERAGE HAVING ACTIVE OXYGEN/FREE RADICAL SCAVENGING ACTIVITY

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Abstract of JP9094077

PROBLEM TO BE SOLVED: To obtain the subject food and beverage high in activity scavenging active oxygen/free radical exerting undesirable influence on organisms and participating in various diseases and aging, preventing and reducing disorders related to the active oxygen/free radical by blending a food or beverage with a readily water-soluble flavonol glycoside. **SOLUTION:** A rutin, etc., are dispersed into water, mixed with naringinase, retained at pH7 to 5 hours at 50 deg.C, concentrated and cooled to precipitate isoquercitrin. The isoquercitrin is separated by filtration, dried, mixed with a corn starch and retained with a CTGase enzyme at pH6.8 for 12 hours. The prepared solution is passed through an adsorption resin column, the adsorbed substance is desorbed with 50vol.% aqueous solution of methanol and the desorbed substance is concentrated to dryness to give a readily water-soluble flavonol glycoside of quercetin-3-O-glycoside, etc. Then, a food is mixed 0.001-5wt. of the readily water-soluble flavonol glycoside to give the objective food or beverage having active oxygen/free radical scavenging activity.

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